

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252007

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10209040 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2104.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

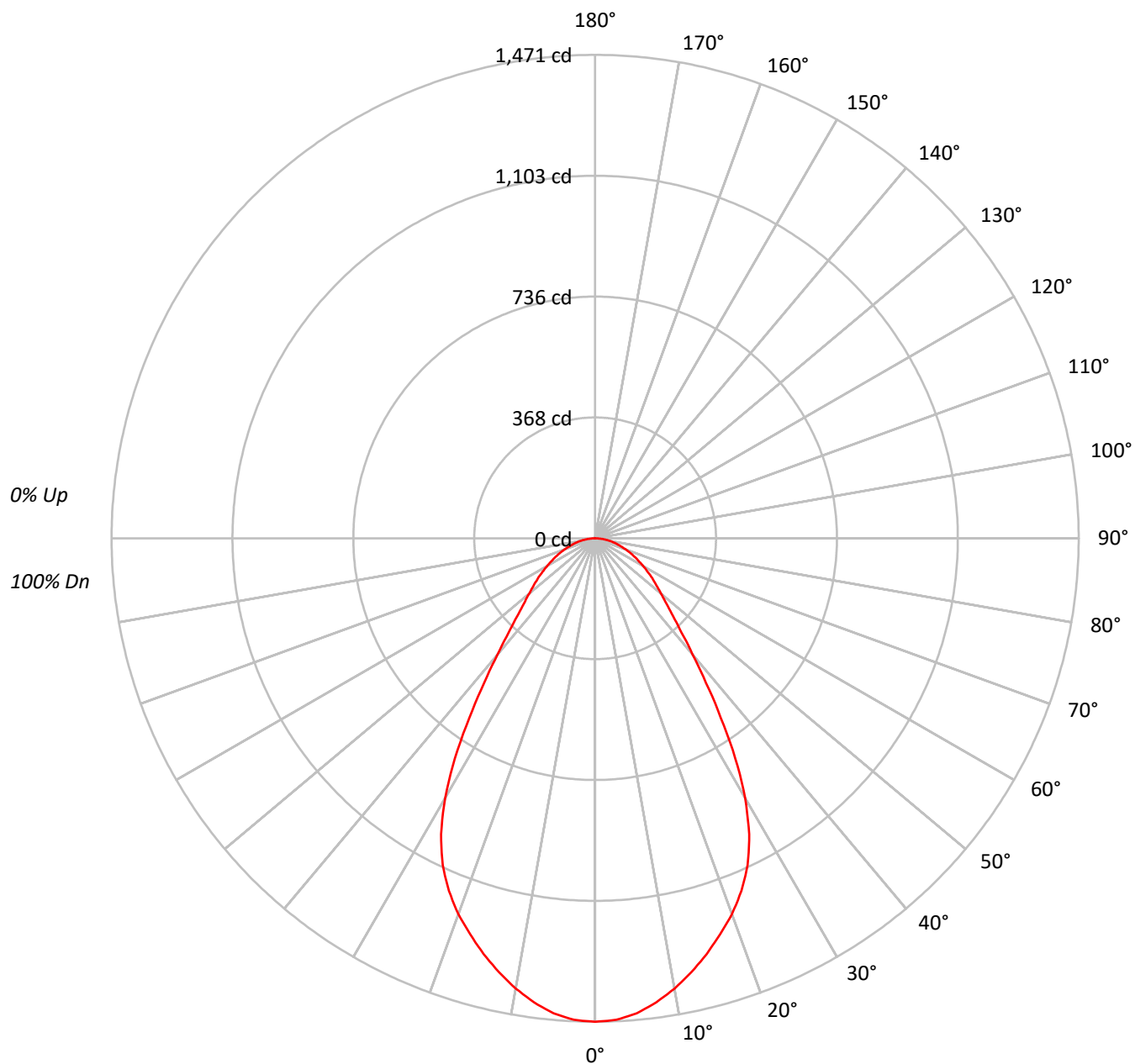
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	58	50	45	68	57	50	45	56	49	45		54	49	45		53
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143400
5°	141932
10°	137665
15°	132144
20°	126198
25°	118018
30°	102733
35°	79273
40°	58650
45°	46158
50°	39648
55°	36056
60°	32863
65°	30417
70°	28096
75°	26358
80°	24470
85°	23035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	6.5
10°-20°	368.1	17.5
20°-30°	498.1	23.7
30°-40°	418.5	19.9
40°-50°	264.8	12.6
50°-60°	190.2	9.0
60°-70°	130.9	6.2
70°-80°	74.1	3.5
80°-90°	22.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1002.7	47.7
0°-40°	1421.2	67.5
0°-60°	1876.2	89.2
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1471	
5°	1451	137
15°	1310	368
25°	1098	498
35°	666	418
45°	335	265
55°	212	190
65°	132	131
75°	70	74
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1471.4
2.5°	1466.8
5°	1450.8
7.5°	1424.4
10°	1391.1
12.5°	1352.2
15°	1309.7
17.5°	1263.8
20°	1216.8
22.5°	1161.8
25°	1097.5
27.5°	1015.0
30°	912.9
32.5°	793.6
35°	666.3
37.5°	553.9
40°	461.0
42.5°	388.8
45°	334.9
47.5°	293.6
50°	261.5
52.5°	235.1
55°	212.2
57.5°	189.2
60°	168.6
62.5°	149.1
65°	131.9
67.5°	114.7
70°	98.6
72.5°	83.7
75°	70.0
77.5°	56.2
80°	43.6
82.5°	32.1
85°	20.6
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)